

0570
12/0

OIPE

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/989,920

CRF Processing Date: 12/3/2001

Edited by: _____
Verified by: Ar (STIC staff)

ENTERED

- Changed a file from non-ASCII to ASCII
- Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- Edited a format error in the Current Application Data section, specifically: _____
- Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____.
- Added the mandatory heading and subheadings for "Current Application Data".
- Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- Inserted colons after headings/subheadings. Headings edited included: _____
- Deleted extra, invalid, headings used by an applicant, specifically: _____
- Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____
- Inserted mandatory headings, specifically: _____
- Corrected an obvious error in the response, specifically: _____
- Edited identifiers where upper case is used but lower case is required, or vice versa: _____
- Corrected an error in the Number of Sequences field, specifically: _____
- A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PalenIn bug). Sequences corrected: _____
- Other: _____

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 2/1/95

OIPE

RAW SEQUENCE LISTING

DATE: 12/03/2001

PATENT APPLICATION: US/09/989,920

TIME: 16:53:23

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\12032001\I989920.raw

#2

P.5

3 <110> APPLICANT: Macina, Roberto
4 Recipon, Herve
5 Chen, Sei-Yu
6 Sun, Yongming
7 Liu, Chenghua
9 <120> TITLE OF INVENTION: Compositions and Methods Relating to Lung Specific Genes and
Proteins
11 <130> FILE REFERENCE: DEX-0291
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/989,920
C--> 13 <141> CURRENT FILING DATE: 2001-11-21
13 <150> PRIOR APPLICATION NUMBER: 60/252,500
14 <151> PRIOR FILING DATE: 2000-11-22
16 <160> NUMBER OF SEQ ID NOS: 284
18 <170> SOFTWARE: PatentIn version 3.1
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22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapien
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30 aataatcctg gtaaatctct ttttaagccg agtaaccctt ccagattttg cctttttatt 180
32 attgaggctg gctttatttt cttctacttt ttttccggtt ttatagcagt taattatttt 240
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44 <400> SEQUENCE: 2
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49 atcattgaag atacaaaacc gtacatgcag gctgggtgtc tggttagtca atggctgatt 180
51 tgcttcaact gtctagtatg tatgtgcagc ctgaaactgg ctccttaaaa ggaaagccgg 240
53 gtcagtcac ttgaaaaaat gacatgtaa agtaaatcga taattgtttt gagagacggt 300
55 acatgtttta aaggttggcc ttaagcttca gtaacattgt cttttgtga cttttgttg 360
57 tcacacctgt accctaacct gacaggaatt aactactgtt tttttgtggg gcagaaagca 420
59 aaacctggtg ttgtgacttt taccctaag gttcttaggc aaggttagtg agaagaaaca 480
61 caaacccaga tgcattgatt gtgcattatt ttgtagacaa gctacttttt cttctgtccc 540
63 tttacaaaat ttgcagcaat taccctccct ttggggctca gagtgaaagc taattgtggg 600
65 gtagatgaga ttgcagaaga atggatgtcc atggctgtga aactgcaca ctgcacatcc 660
67 atctccagtg ctcacactgt gcagctacca ctccctggct gcgtgccatg ctgtcggggt 720
69 gcagatttgc acacataaat tcctcaggaa gagtttgcag gagcatcacc tcgcaatatt 780
71 ctgtactgac caaacaaggg atttgaact ttttcagcac aaaaggataa cttccgagtg 840
73 gtggctgtga cgcatactag caaaggtaat ggtgatctag caaacaaaat tggtttctgc 900
75 agttagaagt gagcaggagc acttgattta tagtatttaa ataactctgg ttaattcttt 960
77 ttttaagccga gtaacccttc cagattttgc ctttttatta ttgaggctgg ctttattttc 1020
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85 cctacattag tcatctagcc attgtttgga tgttttgagt tgatttttta tgggtgcctct 1260
87 ttttagcttg aatattacgt ttactttaat ccaagtctag gcottttaaa gggtccttaa 1320
89 aattaaagtt cagaatgtga atccctttga catctattac aggtttatag gacctttttg 1380
91 gttgtgatta ctgttttcaa tacgattgta taaatgaagt taactttgtc agaagttaaa 1440
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107 ttattgtgtg gctctggggg taagaattct gtggtttgaa aaaaaataaa tattttgtat 1920
109 tgattctcac gtcatttcaa tgttgtgact atgtactaaa tgcactaaga ctgggtattc 1980
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130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapien
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138 ccctttggga agctgcagaa ataaaacact cccctctatg cctcaactaca caagattaat 180
140 acacttctag tgaagaaga attttaatgc acttgagatg aaagaagcca gatgctttcc 240
142 ttttatgtc ctttccaacc atttagagtg cgggggatgg aagtgtagca aggcttgacc 300
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152 <211> LENGTH: 594
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154 <213> ORGANISM: Homo sapien
156 <400> SEQUENCE: 4
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161 ccctttggga agctgcagaa ataaaacact cccctctatg cctcaactaca caagattaat 180
163 acacttctag tgaagaaga attttaatgc acttgagatg aaagaagcca gatgctttcc 240
165 ttttatgtc ctttccaacc atttagagtg cgggggatgg aagtgtagca aggcttgacc 300
167 tgcaactccc aggacctgc tggatcatgtc aatcccaagg gcagaaatat ctcttctaga 360
169 atccttccag ctcacctcca ctgtggctac aagtgaaagc cataagtcaa acgggagctg 420
171 caggaagcca cacttactgc actgtccaag aataaatcaa aagcttttaa tagcaagaag 480

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178 <210> SEQ ID NO: 5
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181 <213> ORGANISM: Homo sapien
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184 actactaaag gcaaccggca tggactcata atatttgtgg ggacagcaaa aagactaaaa      60
186 gttctaagga agaaaatgcg aaccttgata gtttgaaata gttaaaaaga cagtgtagaa      120
188 actgcttagg cagttggatt atggactatt agatgatact tgggtctgat aatgggataa      180
190 ggagaataaa gtatttaggg atccaatatt acgectgcag ctttttccaa atagttcatg      240
192 ggggaggggg atgtgtaagt ggtaactga agtctaacta gat      283
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205 attggaacac agctacattc agtccatggc tgcttttaga atacaacagt agactttaac      180
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213 aatgtgcttt tcaagtttga ctttttagga tgcaattaat tcactaaata cagaacttaa      420
215 ctaaggacaa aatttaaaga tcagcattct tcccttccc atcacgctca acttaacatg      480
217 aagaactgta aacatcctaa gttacaaca aacctata gttagacttc agttaaccac      540
219 ttacacatcc cctccccca tgaactattt ggaaaaagct gcaggcgtaa tattggatcc      600
221 ctaaataactt tattctcctt ataccattat cagacccaag tatcatctaa tagtccataa      660
223 tcaaaactgcc taagcagttt ctacactgtc tttttaacta tttcaaacta tcaaggtctg      720
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227 ttgcctttag ttgtaccaa ataatggttt gtctatttcc taaaagtagt actcttaaat      840
229 ttaaatttag tgttattttt gttgtcattg tctctcttc ctcatgtggt tgtgcaggca      900
231 gagcttgagc atccagattt caaaattaaa aaataaaaga taatctagtt taatatatag      960
233 tagttgaatc acctaaagtc tagactgctg tatgagcacc cattatctt cactatattc      1020
235 catcatcccc caacatatcc acagtagatg aagggcagtt tgctcaaaca ttgttttgat      1080
237 cctgtcatgt ctgttcagaa atgectgtct attcagaaac ccacgtctaa taacaaaatc      1140
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243 aagtttttgg ctctccactt ctgctttaca cgttcatctt tcttgaaatc aaatccaatc      1320
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249 gtatcttgca tatagtaaat ataatgact tgtttgcat ttgttatcct aacttggcta      1500
251 taaagaaaat cagatgtott caccagtcgt tcaaaactca ggtctgccta cagattcata      1560
253 gatggctgtg gatttttata attttgtcac aaagttagtg gtaactacag gttatctcag      1620
255 aatatctttt ttggcgtata aattttttcc ttttctttt ttagacagtc tctctctctg      1680
257 tcgcccaggc tagagtgcag tggcgtgatc ccggtcact acaacctctg cctcctgggt      1740
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261 atgccagct cttttgtatt ttaagttaga gacagggttt caccatgttg gtcaggctgg      1860
263 tctcgaactt ctgacttcag gcaaccttag ccgcctcggc ctcccaaagt gctgggatta      1920

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RAW SEQUENCE LISTING

DATE: 12/03/2001

PATENT APPLICATION: US/09/989,920

TIME: 16:53:23

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\12032001\I989920.raw

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267 taagattcta tttgcttttc tttattcata gagaccacaa acagatcgca gatccagggt 2040
269 tctcaaaactg gagcatctgc ttaattttcc cataaaatca gtcttattct ttctgacagc 2100
271 tctgagactc ctccggccac gactagggtc tgtcctggag gaaacgggtg aggacggccg 2160
273 cacaaaaacc aatctacctg atgaaaactc cgttcccttc tcgccagaaa cataaaatgc 2220
275 gatggatacg ctogtgc 2237
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279 <211> LENGTH: 777
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281 <213> ORGANISM: Homo sapien
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288 ctctaggagt cattattctt cctttgcagt ctcaattcta ttactccgt aacaagtaaa 180
290 ctgttttatc ccttggctg ggaaggataa tttttaccct accaagatga tgacaatgc 240
292 actgcagtgc tcaccagca agaaacacat aaatatgaag cagcgtcaaa gtctttctat 300
294 gaagtgtatg caagaattga tttgcaatgc attaatcag gaattcagtg gagaggctcc 360
296 tactatacct agcagatcta aacttgagct catgataaca ctgcacaaag ctatggtaga 420
298 taaaagtgat aggtaatgcc aatagaacaa ttccactgac aacacaaact cctccaagaa 480
300 ttcttccagg cactgtgata ggatacatat ctccatagcc aactgtagtc atagagataa 540
302 tcaccacca gcaggcagca ggaatgctgg taaagtcct gttggatgtt tccaggtcca 600
304 gcccatgttc aagaagctga gaaagtgcac taaagattgc catggcaaca caaatgaaga 660
306 cagtaacata accatctctc ggtagcacgt ttgagagtca accgagtgtc gaagaccatt 720
308 aagtgaacgc agctggcgta atcatgtcta gctgttctgt gtgaatgttc gtcaacc 777
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323 acctggaac atccaacaag gactttacca gcattcctgc tgcttctgt gggtgattat 240
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331 cctctccact gaattcctga attaatgcat tgcaaatcaa ttcttgcata cacttcatag 480
333 aaagactttg atgctgcttc atatttatgt gtttcttgct gggtgagcac tgcagtggca 540
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337 cttgttatgg agtaaataga attgagactg caaaggaaga ataatgactc ctagagtaaa 660
339 ctttaggacc cgttttatt tagacttgtt ttcccgtttc cttgaatgat tacacatatt 720
341 taaaaaatac attatttgaa cattttaaaa cagaaaggta ctattttcca atgtttttcc 780
343 atcttatgaa ttcagaagaa gcttggaaact tatagtgttt tttgtttgag agtaacattt 840
345 tcatttctaa atgttttata atttctcata tcaatgtcag aagtatcctg gaaacatatg 900
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351 <211> LENGTH: 445
352 <212> TYPE: DNA
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RAW SEQUENCE LISTING

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360 taagtccgca ggacttaaat aaccagtcag cottagtatc tacatctgga ccaggaagcc      180
362 ttgtgttaca gacacagatt ccctgtgaag ttctccaggg tgtaaagaag gccccagggg      240
364 ggtgccgacg ggatgtgagg gctgoccttc agctcagggc agcctgcaag caacagggca      300
366 gttgggaagg gtcacaggca caggaagggg gcagtgggca accattgatt acatcaaacc      360
368 aggatggttt cttcttttta aagaaacttt tgtgagtgtt taccacccc catccacaca      420
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373 <210> SEQ ID NO: 10
374 <211> LENGTH: 1254
375 <212> TYPE: DNA
376 <213> ORGANISM: Homo sapien
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383 aggcaatgtc agtctcatca aacaaaacca gcattggaag cgaatattaa caaatatcag      180
385 aatgaaatta caaaatatac atctccagcc tcataaaaca tgaattttat aagcactttc      240
387 ataaacataa gaaaaatagc tttgacaata actatttgaa aacattatta ttaataatct      300
389 tgtatactgt acatgtgcac ttaaagttaa tagcaccaac attcattata ttatgaaggg      360
391 gatactttat aagaattata aattattttt acatgattaa ataattttgg cagagtaagt      420
393 ccgcaggact taaataacca gtcagcctta gtatctacat ctggaccagg aagcctttgt      480
395 gttacagaca cagattccct gtgaagttct ccagggtgta aagaaggccc cagggaggtg      540
397 ccgacgggat gtgagggctg cctttcagct caggcgagcc tgcaagcaac agggcagttt      600
399 ggaaggggtc acaggcacag gaagggagca gtgggcaacc attgattaca tcaaaccagg      660
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403 tatgctctct aggaaatgtg aaagtataag cttcagaaaa atgtttttct catcctttaa      780
405 tttctggttt tatgatcaaa tgttccgaag aactgcttc tttttgctca aaatagttga      840
407 cattgtcatt gcttctagtt tttcagctcc tactatgctt actatgtcca tgggtgccat      900
409 tgacgtcttt ggctatttat catctctaga aaagaaaaaa aaaacattaa aattttagga      960
411 tgtaggatcc acaataaatc tcttaccaaa tctccttaa atccctaaac tctctacctg      1020
413 gctctgactc caggatcacc ctttcagttc ttccatggtt tttcttcgga aaatgtagtt      1080
415 tcttaacctt tctaccacc cttctcgtct actcttaggt ctgcagccac agtgatagtt      1140
417 ctaagttgca aacctgatca tgctctcca gtacttagtc gttgaaaaat cttcctactt      1200
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423 <211> LENGTH: 838
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432 agaatggaaa gtgtatattg gtgacgcaa cctcagtttc tgagcactcc tgctctgtgg      180
434 tgagaatcag acaaaaattc atcggggtga aaaaggcatt acctgattca cacccttgtc      240
436 ttgctagccc tcttccattc atttctcaca cagcacttgc tctgttaaatt cctctctctg      300
438 tctcagacca tgcttgcccc ttcaaagggg atggttcagg ctctttcaa gacattggag      360
440 tttctctctg gggaaagaga gccccctact ggtttggctt cagtctaggt ccaccatccc      420
442 tctcgatctg gcatcttggg gattaattta aaaggcaagc tcaccacaat gtaagcctat      480
444 ggtctggcca accttgcttt gggaaactgtg acaccaaagc cccaggact atctgcctct      540

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Use of n and/or Xaa has been detected in the Sequence Listing.
 → Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/989,920

DATE: 12/03/2001
TIME: 16:53:24

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\12032001\I989920.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:1622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:1898 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:1956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:1958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:1960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:1962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:2033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:2035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:2037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:2097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:2529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:2531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:2533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:2535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:2537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:3554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:3595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:3969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74
L:4680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89
L:4684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89
L:5172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99
L:5494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103
L:5941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110
L:5943 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110
L:5945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:110
L:6124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:6553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:6555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:6587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:6589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:6591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122
L:8054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145
L:8056 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145
L:8058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/989,920

DATE: 12/03/2001

TIME: 16:53:24

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\12032001\I989920.raw

L:8060 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145
L:8062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145
L:8064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145
L:8279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150